

<b>10 COURSE H – EXAMINATION OF TYPEWRITERS AND PRINTOUT DEVICES</b>	Page 1 of 3
<b>Division of Forensic Science</b>  <b>QUESTIONED DOCUMENTS TRAINING MANUAL</b>	Amendment Designator:
	Effective Date: 1-April-2004
<p style="text-align: center;"><b>10 COURSE H – EXAMINATION OF TYPEWRITERS AND PRINTOUT DEVICES</b></p> <p><b>10.1 Scope</b></p> <p>10.1.1 The History of Typewriters (approximately 25 hours)</p> <p>10.1.2 Theory of Typewriter Identification (approximately 43 hours)</p> <p>10.1.3 Type Font Identification (approximately 40 hours)</p> <p>10.1.4 The Examination Process (approximately 182 hours)</p> <p>10.1.5 Ribbon Examination (approximately 62 hours)</p> <p>10.1.6 Examination/PE (approximately 8 hours)</p> <p><b>10.2 Objective</b></p> <p>To provide an overview of the history of typewriters and the principles of the examination and identification of typewriters and printers</p> <p><b>10.3 Methods of Instruction</b></p> <p>Self-directed, practicals, demonstration, lecture</p> <p><b>10.4 References</b></p> <p>10.4.1 The History of Typewriters</p> <ul style="list-style-type: none"> <li>• Bliven, B., <u>The Wonderful Writing Machine</u>, Random House, NY, 1954, (review all)</li> <li>• Masi, Frank, <u>The Typewriter Legend</u>, Matsushita Electronic Corporation of America, NJ, 1985, pp 12-42</li> <li>• Technical articles (as assigned)</li> </ul> <p>10.4.2 Theory of Typewriter Identification</p> <ul style="list-style-type: none"> <li>• Conway, J.V.P., <u>Evidential Documents</u>, Charles C. Thomas Publisher, 1959, pp 109-138</li> <li>• Harrison, W.R., <u>Forgery Detection</u>, Frederick A. Praeger, NY, 1964, Chap 11 and pp 181-184</li> <li>• Harrison, W.R., <u>Suspect Documents</u>, Frederick A. Praeger, NY, 1958, pp 22, 42, 50-52, 98, 237-287</li> <li>• Hilton, O., <u>Scientific Examination of Questioned Documents</u>, Elsevier Inc., NY, 1982, pp 22-24, 46-66, Chap 11,15</li> <li>• Hutchinson, H., <u>The Typewriter Repair Manual</u>, Tab Books, Inc., 1981, Chap 1-3</li> <li>• Osborn, A.S., <u>Problem of Proof</u>, The Essex Press, NJ, 1926, Chap 25</li> <li>• Osborn, A.S., <u>Questioned Documents</u>, Boyd Printing Co., Albany, NY, 2<sup>nd</sup> Edition, 1929, Chap 32</li> <li>• Osborn, A.S. &amp; A.D., <u>Questioned Document Problems</u>, Boyd Printing Co., Albany, NY, 2<sup>nd</sup> Edition, 1946, Chap 18-20</li> <li>• Lundquist, Frank, <u>Methods of Forensic Science</u>, Vol. 2, Interscience Publishers, London, 1963, pp 79-126</li> <li>• Ellen, David, <u>The Scientific Examination of Documents: Methods and Techniques</u>, Taylor and Francis, Ltd, 1997, Chap 6</li> <li>• Technical articles (as assigned)</li> </ul>	

<b>10 COURSE H – EXAMINATION OF TYPEWRITERS AND PRINTOUT DEVICES</b>	Page 2 of 3
<b>Division of Forensic Science</b>  <b>QUESTIONED DOCUMENTS TRAINING MANUAL</b>	Amendment Designator:
	Effective Date: 1-April-2004
<div> <p>10.4.3 Type Font Identification</p> <ul style="list-style-type: none"> <li>• Technical articles (as assigned)</li> </ul> <p>10.4.4 The Examination Process</p> <ul style="list-style-type: none"> <li>• Technical articles (as assigned)</li> </ul> <p>10.4.5 Ribbon Examination</p> <ul style="list-style-type: none"> <li>• Technical articles (as assigned)</li> </ul> </div> <div> <b>10.5 Standards</b> </div> <div> <p>10.5.1 The Student must be able to explain the history and current trends of the typewriter and various types of printers.</p> <p>10.5.2 The student must be able to explain the various types of typewriters/printers, their nomenclature, basic mechanics, effects of computer hardware/software, effects of multi-font capabilities and differences involved in their examination.</p> <p>10.5.3 The student must be able to explain typewriter classification systems, and how manufacture and sale of typewriters and component parts affect these systems.</p> <p>10.5.4 The student must be able to explain the theory of typewriter/printer identification, what constitutes adequate standards, characteristics that indicate a certain class of typewriter/printer, what constitutes an individual characteristic, and what constitutes sufficient characteristics to warrant an identification or an elimination of a specific machine.</p> <p>10.5.5 The student must be able to explain the process of type font identification.</p> <p>10.5.6 The student must be able to explain and demonstrate the use of typewriter test grids.</p> <p>10.5.7 The student must be able to explain the various types of typewriter ribbons, the forensic value of typewriter ribbons, how to differentiate types of ribbons on a typed document, the use of RAW-1 (if available) in ribbon examinations, the use of polarized light microscope in ribbon examinations, and how a ribbon can be matched to questioned text.</p> <p>10.5.8 The student must be able to conduct examinations of typescript to:</p> <div> <p>10.5.8.1 Identify the preparing machine or element</p> <p>10.5.8.2 Identify the type font of a text</p> <p>10.5.8.3 Determine the spacing measurements of a text</p> <p>10.5.8.4 Detect misaligned text</p> </div> <p>10.5.9 The student must be able to conduct examinations of typewriter ribbons to:</p> <div> <p>10.5.9.1 Decipher the text of typescript on carbon film ribbons</p> <p>10.5.9.2 Explain how typewriter ribbons can be matched to questioned typescript, and identify the ribbon as the source of a questioned text</p> </div> </div>	

<p><b>10 COURSE H – EXAMINATION OF TYPEWRITERS AND PRINTOUT DEVICES</b></p>	<p>Page 3 of 3</p>
<p><b>Division of Forensic Science</b></p> <p><b>QUESTIONED DOCUMENTS TRAINING MANUAL</b></p>	<p>Amendment Designator:</p>
	<p>Effective Date: 1-April-2004</p>
<p>10.5.9.3 Operate the RAW-1 (if available)</p> <p><b>10.6 Verification</b></p> <p>10.6.1 Student must score at least 80 on a written test.</p> <p>10.6.2 Student must complete a practical exercise (to the instructor’s satisfaction) demonstrating the ability to:</p> <p>10.6.2.1 Identify a typewriter or element as the source of a questioned text</p> <p>10.6.2.2 Use the INTERPOL classification system and Haas Atlas to identify possible sources for a questioned type font.</p> <p>10.6.2.3 Identify a carbon film ribbon as the source of a questioned typewritten text.</p> <p>10.6.3 Student must prepare and present a one-hour class on typewriter examination using any additional guidelines provided by the instructor.</p> <p>10.6.4 Student will have 360 hours to complete Course H.</p> <p style="text-align: right;">► End</p>	